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OUTSTANDING COAL MINE OF KARAGANDA BASIN

D. Ye. Markman

Mine No 47 of the Leninugol' Trust, Karagandaugol' Combine, joined the ranks of outstanding mines of the Karaganda Basin at the end of 1949. Through the introduction of new mining technique and the organization of labor at the mine faces according to the cycle schedule, its coal output has increased from month to month, the level of mechanization has risen, and labor productivity has improved. The mine is regularly fulfilling or exceeding its quota, and operating at a profit. During 1949, it saved tens of thousands of rubles.

Mine No 47 fulfilled the 1949 plan 111 percent. During the first 4 months of 1950 it fulfilled the plan 101.6 percent and in April it completed the Five-Year Plan. During the past year its achievement of planned capacity rose from 70 percent in the first quarter to 98.9 percent in the fourth. During 1949 the average daily output for the mine rose 25 percent, average daily labor productivity increased 33 percent, and the number of workers decreased 12 percent.

Every mine face at Mine No 47 is equipped with a Makarov mining combine. In this respect it ranks first in the basin. The level of mechanization for coal loading amounted to 90 percent of actual mining during February. (Ten percent is accounted for by coal removal from recesses prepared beforehand for the combine.)

Before the arrival of the com ine, the mine had 102 cutters and loaders performing manual labor. At present, there are only 11 and they are occupied exclusively in preparing recesses for combines.

Mine No 47 is opened up by one sloping shaft. It works the "Vyshesredniy" seam which is 1.5 meters thick and dips at an angle of 7 or 8 degrees. The roof and floor of the seam are of clayey shale and the coal is of medium toughness. In the immediate roof there are blocks of clayey shale about 20 centimeters thick, which crumble after the removal of the coal. Then comes a layer of compact clayey shale 5 to 7 meters thick, and above that the main roof of sandstone.

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The mine has three mine faces in operation, one on the western side -the third western -- and two on the eastern side -- the third eastern and
the third-bis eastern. These mine faces are 70 meters, 120 meters, and 100
meters long respectively.

The GKM-5 mining combine of the Makarov system operating at each face removes the entire thickness of the seam. The machine consists of two cutting units, a lower one and an upper one. The lower cutting unit is constructed on the base of a KMP-1 heavy cutting machine and is provided with a curved cutting bar and a cutting bar with toothed disks attached to it. The upper unit is constructed on the base of a GTK-3m cutting machine. It has two bars, the lower one rupright, the upper one upside down and bent at an angle of 65 degrees. In addition, it is provided with a curved cutting bar and a cutting machine with toothed disks attached to it.

A combine brigade consists of six men: the operator, his two helpers, two men to carry out mine propping, and an electrician. The daily productivity of a combine amounts to 200-230 tons.

The new SKR reverse scraper conveyer is employed at the third western face, ST-11 conveyers at the other faces. Haulage along the drifts is by electric locomotive.

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